

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582842

Luminaire Tested: **HCC6S50D010MB-HM64560940-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S50D010MB-HM64560940-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

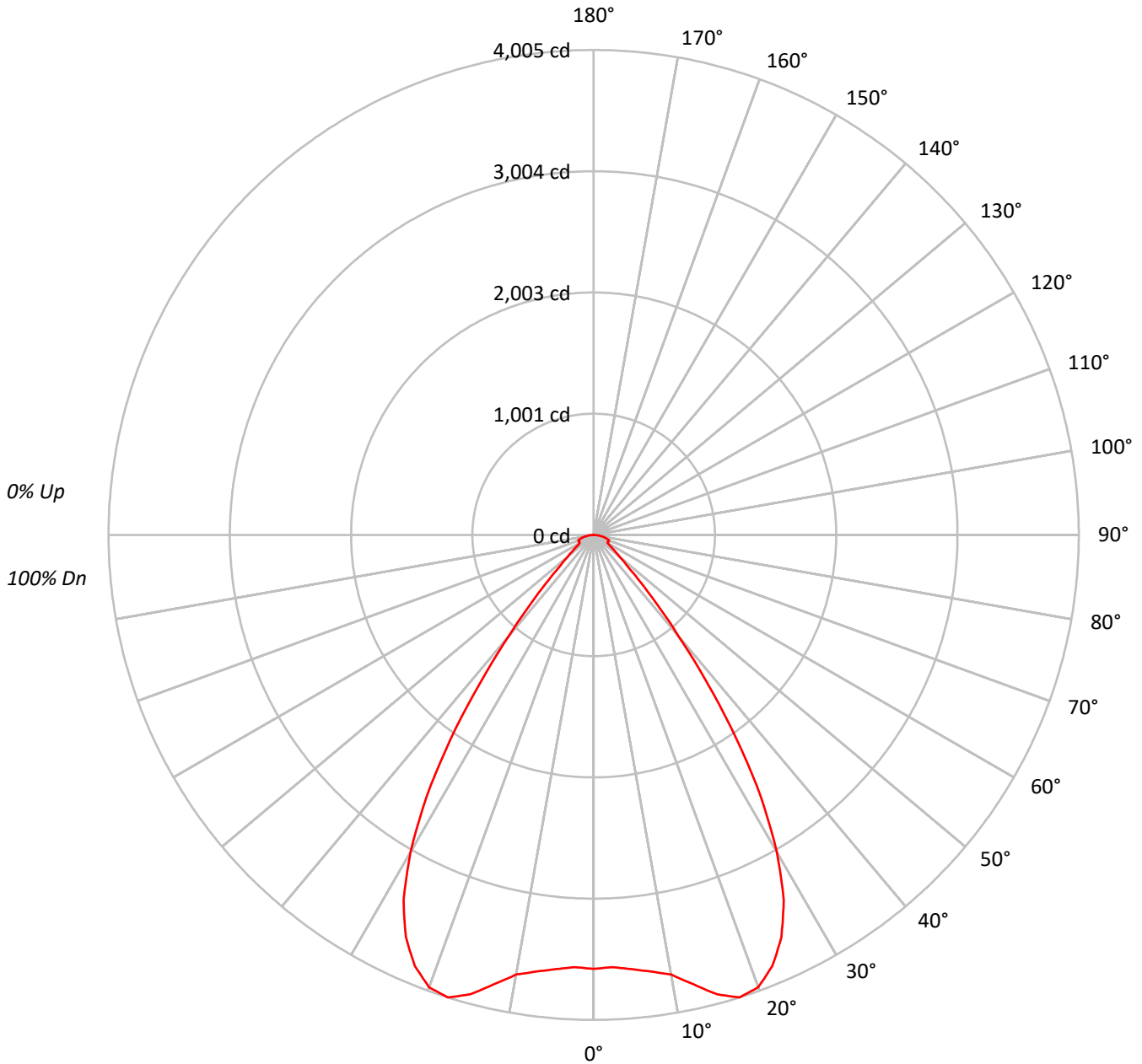
Lumens per Lamp: N/A  
Luminaire Lumens: 5266.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P582842  
CATALOG NUMBER: HCC6S50D010MB-HM64560940-61WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582842  
 CATALOG NUMBER: HCC6S50D010MB-HM64560940-61WDWB

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	196410
5°	198084
10°	205218
15°	222913
20°	231866
25°	221777
30°	191397
35°	137815
40°	77638
45°	40237
50°	23991
55°	17280
60°	14681
65°	16941
70°	21462
75°	22685
80°	22193
85°	21071



TEST NUMBER: P582842  
 CATALOG NUMBER: HCC6S50D010MB-HM64560940-61WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.4	6.6
10°-20°	1107.8	21.0
20°-30°	1655.8	31.4
30°-40°	1265.7	24.0
40°-50°	442.1	8.4
50°-60°	168.5	3.2
60°-70°	132.1	2.5
70°-80°	111.8	2.1
80°-90°	36.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3110.0	59.1
0°-40°	4375.7	83.1
0°-60°	4986.2	94.7
0°-90°	5266.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5266.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3583	
5°	3600	346
15°	3928	1108
25°	3666	1656
35°	2059	1266
45°	519	442
55°	181	168
65°	131	132
75°	107	112
85°	34	36
90°	0	



TEST NUMBER: P582842  
CATALOG NUMBER: HCC6S50D010MB-HM64560940-61WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3582.8
2.5°	3572.8
5°	3599.6
7.5°	3636.4
10°	3686.6
12.5°	3800.5
15°	3927.7
17.5°	4004.8
20°	3974.5
22.5°	3854.1
25°	3666.5
27.5°	3398.7
30°	3023.6
32.5°	2574.9
35°	2059.3
37.5°	1526.9
40°	1084.9
42.5°	760.1
45°	519.0
47.5°	364.9
50°	281.3
52.5°	221.0
55°	180.8
57.5°	147.4
60°	133.9
62.5°	130.6
65°	130.6
67.5°	137.2
70°	133.9
72.5°	123.9
75°	107.1
77.5°	90.5
80°	70.3
82.5°	50.2
85°	33.5
87.5°	13.3
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)